



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/718,071

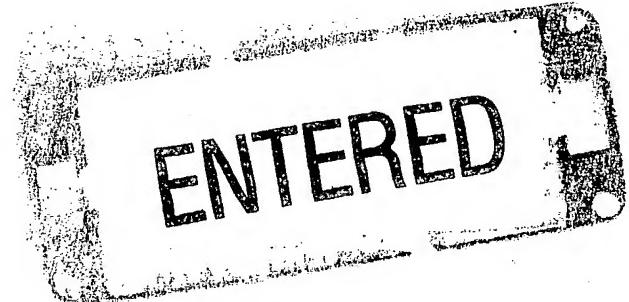
DATE: 09/29/2004

TIME: 11:25:00

Input Set : A:\21882-517-UTIL.txt

Output Set: N:\CRF4\09292004\J718071.raw

3 <110> APPLICANT: Bertilson, Goran
 4 Erlandsson, Rikard
 5 Frisen, Jonas
 6 Haegerstrand, Anders
 7 Heidrich, Jessica
 8 Hellstrom, Kristina
 9 Haggblad, Johan
 10 Jansson, Katarina
 11 Kortesmaa, Jarkko
 12 Lindquist, Per
 13 Lundh, Hanna
 14 McGuire, Jacqueline
 15 Mercer, Alex
 16 Nyberg, Karl
 17 Ossoinak, Amina
 18 Patrone, Cesare
 19 Ronnholm, Harriet
 20 Wirkstrom, Lilian
 21 Zachrisson, Olof
 23 <120> TITLE OF INVENTION: COMPOUNDS AND METHODS FOR INCREASING NEUROGENESIS
 25 <130> FILE REFERENCE: 21882-517 UTIL
 27 <140> CURRENT APPLICATION NUMBER: US 10/718,071
 28 <141> CURRENT FILING DATE: 2003-11-20
 30 <150> PRIOR APPLICATION NUMBER: US 60/427,912
 31 <151> PRIOR FILING DATE: 2002-11-20
 33 <160> NUMBER OF SEQ ID NOS: 71
 35 <170> SOFTWARE: PatentIn version 3.2
 37 <210> SEQ ID NO: 1
 38 <211> LENGTH: 38
 39 <212> TYPE: PRT
 40 <213> ORGANISM: Homo sapiens
 42 <400> S_
 44 His Ser Asp Glu Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
 45 1 5 10 15
 48 Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu Gly Lys Arg Tyr Lys
 49 20 25 30
 52 Gln Arg Val Lys Asn Lys
 53 35
 56 <210> SEQ ID NO: 2
 57 <211> LENGTH: 21
 58 <212> TYPE: PRT
 59 <213> ORGANISM: Homo sapiens
 61 <400> SEQUENCE: 2



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63 Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr Phe Cys His
 64 1 5 10 15
 67 Leu Asp Ile Ile Trp
 68 20
 71 <210> SEQ ID NO: 3
 72 <211> LENGTH: 24
 73 <212> TYPE: PRT
 74 <213> ORGANISM: Homo sapiens
 76 <400> SEQUENCE: 3
 78 Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys
 79 1 5 10 15
 82 Arg Arg Pro Val Lys Val Tyr Pro
 83 20
 86 <210> SEQ ID NO: 4
 87 <211> LENGTH: 13
 88 <212> TYPE: PRT
 89 <213> ORGANISM: Homo sapiens
 92 <220> FEATURE:
 93 <221> NAME/KEY: misc_feature
 94 <222> LOCATION: (1)..(1)
 95 <223> OTHER INFORMATION: acetylserine
 97 <400> SEQUENCE: 4
 W--> 99 Xaa Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val
 100 1 5 10
 103 <210> SEQ ID NO: 5
 104 <211> LENGTH: 12
 105 <212> TYPE: PRT
 106 <213> ORGANISM: Homo sapiens
 108 <400> SEQUENCE: 5
 110 Tyr Val Met Gly His Phe Arg Trp Asp Arg Phe Gly
 111 1 5 10
 114 <210> SEQ ID NO: 6
 115 <211> LENGTH: 10
 116 <212> TYPE: PRT
 117 <213> ORGANISM: Homo sapiens
 119 <400> SEQUENCE: 6
 121 His Lys Thr Asp Ser Phe Val Gly Leu Met
 122 1 5 10
 125 <210> SEQ ID NO: 7
 126 <211> LENGTH: 32
 127 <212> TYPE: PRT
 128 <213> ORGANISM: Salmon
 130 <400> SEQUENCE: 7
 132 Cys Ser Asn Leu Ser Thr Cys Val Leu Gly Lys Leu Ser Gln Glu Leu
 133 1 5 10 15
 136 His Lys Leu Gln Thr Tyr Pro Arg Thr Asn Thr Gly Ser Gly Thr Pro
 137 20 25 30
 140 <210> SEQ ID NO: 8
 141 <211> LENGTH: 22

RAW SEQUENCE LISTING

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142 <212> TYPE: PRT
143 <213> ORGANISM: Homo sapiens
145 <400> SEQUENCE: 8
147 Ala Glu Lys Lys Asp Glu Gly Pro Tyr Arg Met Glu His Phe Arg Trp
148 1 5 10 15
151 Gly Ser Pro Pro Lys Asp
152 20
155 <210> SEQ ID NO: 9
156 <211> LENGTH: 11
157 <212> TYPE: PRT
158 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 9
162 Arg Pro Cys Pro Gln Cys Phe Tyr Pro Leu Met
163 1 5 10
166 <210> SEQ ID NO: 10
167 <211> LENGTH: 8
168 <212> TYPE: PRT
169 <213> ORGANISM: Homo sapiens
171 <400> SEQUENCE: 10
173 Arg Pro Pro Gly Phe Ser Pro Leu
174 1 5
177 <210> SEQ ID NO: 11
178 <211> LENGTH: 8
179 <212> TYPE: PRT
180 <213> ORGANISM: Homo sapiens
182 <400> SEQUENCE: 11
184 Arg Pro Pro Gly Phe Ser Pro Phe
185 1 5
188 <210> SEQ ID NO: 12
189 <211> LENGTH: 5
190 <212> TYPE: PRT
191 <213> ORGANISM: Homo sapiens
194 <220> FEATURE:
195 <221> NAME/KEY: misc_feature /
196 <222> LOCATION: (2)..(2)
197 <223> OTHER INFORMATION: D-penicillamine /
199 <220> FEATURE:
200 <221> NAME/KEY: misc_feature /
201 <222> LOCATION: (5)..(5)
202 <223> OTHER INFORMATION: D-penicillamine /
204 <400> SEQUENCE: 12
W--> 206 Tyr Xaa Gly Phe Xaa
207 1 5
210 <210> SEQ ID NO: 13
211 <211> LENGTH: 10
212 <212> TYPE: PRT
213 <213> ORGANISM: Homo sapiens
216 <220> FEATURE:
217 <221> NAME/KEY: misc_feature

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Input Set : A:\21882-517-UTIL.txt
 Output Set: N:\CRF4\09292004\J718071.raw

218 <222> LOCATION: (1)..(1)
 219 <223> OTHER INFORMATION: D-pyroglutamic acid
 221 <220> FEATURE:
 222 <221> NAME/KEY: misc_feature
 223 <222> LOCATION: (2)..(2)
 224 <223> OTHER INFORMATION: D-conformation
 226 <220> FEATURE:
 227 <221> NAME/KEY: misc_feature
 228 <222> LOCATION: (3)..(3)
 229 <223> OTHER INFORMATION: D-conformation
 231 <220> FEATURE:
 232 <221> NAME/KEY: misc_feature
 233 <222> LOCATION: (6)..(6)
 234 <223> OTHER INFORMATION: D-conformation
 236 <400> SEQUENCE: 13
W--> 238 Xaa Phe Trp Ser Tyr Trp Leu Arg Pro Gly
 239 1 5 10
 242 <210> SEQ ID NO: 14
 243 <211> LENGTH: 34
 244 <212> TYPE: PRT
 245 <213> ORGANISM: Homo sapiens
 248 <220> FEATURE:
 249 <221> NAME/KEY: misc_feature
 250 <222> LOCATION: (8)..(8)
 251 <223> OTHER INFORMATION: norleucine
 253 <220> FEATURE:
 254 <221> NAME/KEY: misc_feature
 255 <222> LOCATION: (18)..(18)
 256 <223> OTHER INFORMATION: norleucine
 258 <400> SEQUENCE: 14
W--> 260 Ser Val Ser Glu Ile Gln Leu Xaa His Asn Leu Gly Lys His Leu Asn
 261 1 5 10 15
 264 Ser Xaa Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 265 20 25 30
 268 Asn Tyr
 272 <210> SEQ ID NO: 15
 273 <211> LENGTH: 39
 274 <212> TYPE: PRT
 275 <213> ORGANISM: Homo sapiens
 277 <400> SEQUENCE: 15
 279 Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys
 280 1 5 10 15
 283 Arg Arg Pro Val Lys Val Tyr Pro Asn Gly Ala Glu Asp Glu Ser Ala
 284 20 25 30
 287 Glu Ala Gly Pro Leu Glu Phe
 288 35
 291 <210> SEQ ID NO: 16
 292 <211> LENGTH: 52
 293 <212> TYPE: PRT

RAW SEQUENCE LISTING

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Input Set : A:\21882-517-UTIL.txt

Output Set: N:\CRF4\09292004\J718071.raw

294 <213> ORGANISM: Homo sapiens
296 <400> SEQUENCE: 16
298 Tyr Arg Gln Ser Met Asn Asn Phe Gln Gly Leu Arg Ser Phe Gly Cys
299 1 5 10 15
302 Arg Phe Gly Thr Cys Thr Val Gln Lys Leu Ala His Gln Ile Thr Gln
303 20 25 30
306 Phe Thr Asp Lys Asp Lys Asp Asn Val Ala Pro Arg Ser Lys Ile Ser
307 35 40 45
310 Pro Gln Gly Tyr
311 50
314 <210> SEQ ID NO: 17
315 <211> LENGTH: 31
316 <212> TYPE: PRT
317 <213> ORGANISM: Homo sapiens
319 <400> SEQUENCE: 17
321 Thr Val Gln Lys Leu Ala His Gln Ile Thr Gln Phe Thr Asp Lys Asp
322 1 5 10 15
325 Lys Asp Asn Val Ala Pro Arg Ser Lys Ile Ser Pro Gln Gly Tyr
326 20 25 30
329 <210> SEQ ID NO: 18
330 <211> LENGTH: 27
331 <212> TYPE: PRT
332 <213> ORGANISM: Homo sapiens
334 <400> SEQUENCE: 18
336 Leu Ala His Gln Ile Tyr Gln Phe Thr Asp Lys Asp Lys Asp Asn Val
337 1 5 10 15
340 Ala Pro Arg Ser Lys Ile Ser Pro Gln Gly Tyr
341 20 25
344 <210> SEQ ID NO: 19
345 <211> LENGTH: 10
346 <212> TYPE: PRT
347 <213> ORGANISM: porcine
349 <400> SEQUENCE: 19
351 Thr Gly Gly Phe Leu Arg Lys Tyr Pro Lys
352 1 5 10
355 <210> SEQ ID NO: 20
356 <211> LENGTH: 28
357 <212> TYPE: PRT
358 <213> ORGANISM: Homo sapiens
360 <400> SEQUENCE: 20
362 Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met Asp Arg Ile Gly
363 1 5 10 15
366 Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr
367 20 25
370 <210> SEQ ID NO: 21
371 <211> LENGTH: 32
372 <212> TYPE: PRT
373 <213> ORGANISM: Homo sapiens
375 <400> SEQUENCE: 21

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/29/2004
PATENT APPLICATION: US/10/718,071 TIME: 11:25:01

Input Set : A:\21882-517-UTIL.txt
Output Set: N:\CRF4\09292004\J718071.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. 1
Seq#:12; Xaa Pos. 2,5
Seq#:13; Xaa Pos. 1
Seq#:14; Xaa Pos. 8,18
Seq#:24; Xaa Pos. 1
Seq#:31; Xaa Pos. 9
Seq#:37; Xaa Pos. 4,6,8,9
Seq#:42; Xaa Pos. 2,5
Seq#:47; Xaa Pos. 1

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71

VERIFICATION SUMMARY

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Input Set : A:\21882-517-UTIL.txt

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L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
M:341 Repeated in SeqNo=14
L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0